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| APPLICATION NO. | FILING DATE                                       | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.  | CONFIRMATION NO.    |  |
|-----------------|---|----------------------|----------------------|---------------------|--|
| 10/061,710      | 01/30/2002  | Koichi Toyosaki      | 234659US-4646-1294-8 | 1561                |  |
| 22850           | 7590 12/29/2                                      |                      | EXAMINER             |                     |  |
| OBLON, S        | OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. |                      |                      | ALANKO, ANITA KAREN |  |
|                 | 1940 DUKE STREET<br>ALEXANDRIA, VA 22314          |                      | ART UNIT             | PAPER NUMBER        |  |
| ALLAANDI        | CIA, VA 22514                                     |                      | . 1765               |                     |  |

DATE MAILED: 12/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

| В   | Application No.   | Applicant(s)  |
|---|---|---|
|   | 10/061,710  | TOYOSAKI ET AL.   |
| Office Action Summary   | Examiner  | Art Unit  |
|   | Anita K Alanko  | 1765  |
| The MAILING DATE of this communication Period for Reply   | n appears on the cover sheet with th  | ne correspondence address   |
| A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by  - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status | ON. FR 1.136(a). In no event, however, may a reply bon. , a reply within the statutory minimum of thirty (30) period will apply and will expire SIX (6) MONTHS statute, cause the application to become ABAND | be timely filed  I days will be considered timely.  I from the mailing date of this communication.  ONED (35 U.S.C. § 133). |
| 1) Responsive to communication(s) filed on  |   |   |
| 2a)☐ This action is <b>FINAL</b> . 2b)⊠   | This action is non-final.   |   |
| 3) Since this application is in condition for a closed in accordance with the practice ur   |   |   |
| Disposition of Claims   |   | ,   |
| 4) ☐ Claim(s) 1-26 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-26 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction are  | hdrawn from consideration.  |   |
| Application Papers  |   |   |
| 9)☐ The specification is objected to by the Exa   | ıminer.   |   |
| 10)☐ The drawing(s) filed on is/are: a)☐  | ] accepted or b) ☐ objected to by t   | he Examiner.  |
| Applicant may not request that any objection t  |   | • •   |
| Replacement drawing sheet(s) including the c  |   |   |
| Priority under 35 U.S.C. §§ 119 and 120   | ne Examiner. Note the attached Of   | nice Action of form PTO-152.  |
| <u> </u>  | project priority under 25 LLC C & 44  | 0(a) (d) ar (9  |
| 12)⊠ Acknowledgment is made of a claim for fo<br>a)⊠ All b)□ Some * c)□ None of:  | oreign priority under 35 U.S.C. § 11  | 9(a)-(d) or (t).  |
| 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B  * See the attached detailed Office action for 13) Acknowledgment is made of a claim for do since a specific reference was included in the second content of the priority document.   | ments have been received in Applice priority documents have been receivreau (PCT Rule 17.2(a)).  a list of the certified copies not receives priority under 35 U.S.C. § 1                                     | eived in this National Stage eived. 19(e) (to a provisional application)  |
| 37 CFR 1.78. a) ☐ The translation of the foreign languag 14)☐ Acknowledgment is made of a claim for do reference was included in the first sentence   | mestic priority under 35 U.S.C. §§  | I20 and/or 121 since a specific   |
| Attachment(s)   |   |   |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449) Paper N   | 8) 5) Notice of Inform  | nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)   |
| U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Off  | ice Action Summary  | Part of Paper No. 1203  |

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## Claim Rejections - 35 USC § 112

Claims 3, 9 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 3, last line, the term "end width" lacks proper antecedent basis. Is this the first or second end width?

In claims 9 and 21, is it unclear how the material to be etched (intended use) is related to the preamble (etch mask). The material is given little weight in product claims since it cites intended use.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8, 10-20, 22-26 are rejected under 35 U.S.C. 102(e) as being clearly antipacted by Bark et al (US 6,515,626 B2).

Bark discloses an etch mask of photo-sensitive material in a zigzag shape with the cited end width dimensions (Fig.2A, col.3, lines 18-25).

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Claims 1-26 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Morimoto et al (US 6,495,384 B1).

Morimoto discloses an etch mask of photo-sensitive material for a diffraction grating with the cited end widths (Fig. 15).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anita K Alanko whose telephone number is 571-272-1458. The examiner can normally be reached on Mon, Tues & Fri: 8:30 am-5 pm; Wed&Thurs:10 am-2 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Anita K. Slanko

Anita K Alanko Primary Examiner Art Unit 1765